

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 62-186077

(43)Date of publication of application : 14.08.1987

(51)Int.Cl.

F04B 43/04

(21)Application number : 61-028345

(71)Applicant : MISUZU ERI:KK

(22)Date of filing : 10.02.1986

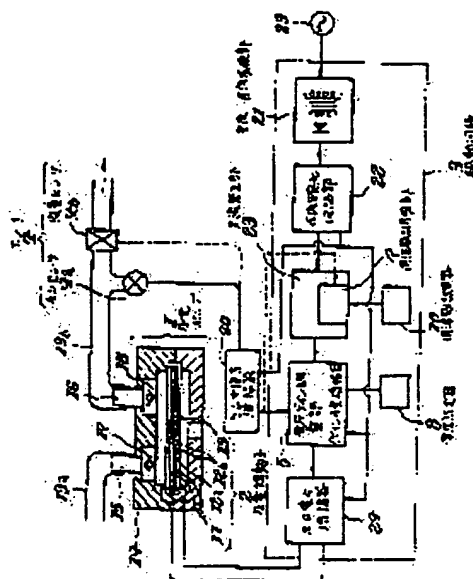
(72)Inventor : OKUYAMA HIDENORI

(54) DRIVING METHOD FOR PIEZOELECTRIC PUMP

(57)Abstract:

PURPOSE: To compensate the deterioration of a piezoelectric vibration chip automatically by inputting the detected values such as the pressure of fluid delivered from a piezoelectric pump to a voltage gain adjusting section in a drive circuit then adjusting such that the difference against a setting value is eliminated.

CONSTITUTION: When a piezoelectric vibration chip 2 is vibrated up and down by applying A.C. output through a drive circuit 3, a piezoelectric pump 1 delivers the fluid sucked through a suction valve 17 through a delivery valve 18. Here, the pressure of the fluid delivered from the piezoelectric pump 1 is detected by means of a pressure sensor 4a, then the output therefrom is fed through an amplifier 20 to the voltage gain adjusting section 5 in the drive circuit 3 so as to be compared with a value set by means of a voltage setter 8. The adjusting section 5 functions to eliminate the difference against the setting value, and the driving of the piezoelectric vibration chip 2 is controlled in accordance with the output from said adjusting section 5 through an output power amplifier 24. When the flow is controlled automatically, said adjusting is performed in accordance with the output from a flow sensor 4b.



LEGAL STATUS

Best Available Copy

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office